

1965

Review - *Masers and Lasers*

Jerry Underfer
University of Iowa

Follow this and additional works at: <https://scholarworks.uni.edu/istj>



Part of the [Science and Mathematics Education Commons](#)

Let us know how access to this document benefits you

Copyright © Copyright 1965 by the Iowa Academy of Science

Recommended Citation

Underfer, Jerry (1965) "Review - *Masers and Lasers*," *Iowa Science Teachers Journal*: Vol. 2 : No. 4 , Article 20.

Available at: <https://scholarworks.uni.edu/istj/vol2/iss4/20>

This Article is brought to you for free and open access by the Iowa Academy of Science at UNI ScholarWorks. It has been accepted for inclusion in Iowa Science Teachers Journal by an authorized editor of UNI ScholarWorks. For more information, please contact scholarworks@uni.edu.

Chemical Background For The Biological Sciences, Emil H. White, Foundations of Modern Biology Series, Prentice Hall & Company, Copyright 1964, \$1.95.

This is a 150 page, well illustrated and informative book covering a number of topics in depth. The book, although quite sophisticated, includes enough introductory material as well as advanced topics to make it a valuable aid to the teacher at any level of background. The book contains interesting material on atomic theory, chemical reactions and organic chemistry. The diagrams illustrate well the principles presented in the text.

Reviewed by Verne A. Troxel
University of Iowa, Iowa City

L. Don Leet, and Florence J. Leet (ed.). **The World of Geology**, New York: McGraw-Hill Company, Inc., 1961, 262 pp.

A series of nineteen articles written by twenty-four authors is edited and introduced by the Leets as an integrated overview of geology leading from basic understandings and currently accepted theory to the limits of man's knowledge and conjecture. The well chosen articles range from original works of Louis Agassiz to current articles from Scientific American. The collection provides interesting reading for the earth science teacher and excellent outside reading assignments for the above average high school student. It is published in both paperback (\$2.75) and hard bound (\$4.25) editions. The topics covered range from the earth's interior, crustal phenomena, oceans, glaciers, earth's origin, origin of life, its develop-

ment, and atmospheric phenomena and origin.

Reviewed by Silas W. Schirner
University of Iowa, Iowa City

Animal Structure and Function, Griffin, Donald R. Harvard, 117 pp, Paperback, Holt, Rinehart and Winston, 1962.

This book is one of ten in the Modern Biology Series. The author discusses the various systems of multicellular organisms in a comparative fashion. The complexity of the book is such that an average high school biology student could easily read and understand the material. Several of the chapters are weak in the discussion of the function of a particular system. There is no real discussion of the chemistry involved in the physiology of the various system. This point alone makes the book undesirable for advanced or gifted biology students.

Reviewed by Robert E. Cook
University of Iowa, Iowa City

Masers and Lasers by H. Arthur Klein, J. B. Lippincott Company, Philadelphia and New York.

"Masers and Lasers" is a book with a good down to earth description of the phenomenon taking place in this rapidly developing field. The book has explanations and analogies which relate laser and maser theory to radio wave transmission. The problems encountered in developing equipment to produce these beams are simply and effectively explained. This is good for an individual who is unfamiliar with the subject.

Reviewed by Jerry Underfer
University of Iowa, Iowa City

NSTA Meeting—

Plan for a report from the fifteen ISTA members who represented the Iowa teachers in Denver. The national convention was one of the finest. How did President Fagle make all of those arrangements in Denver? The announcements indicated a more active Iowa group than the Colorado host group.

Membership—

Have you forwarded the names of potential ISTA members you have contacted to Lyle Anderson? He stands ready to strike, to collect your dues, and to add their names to the membership roster.